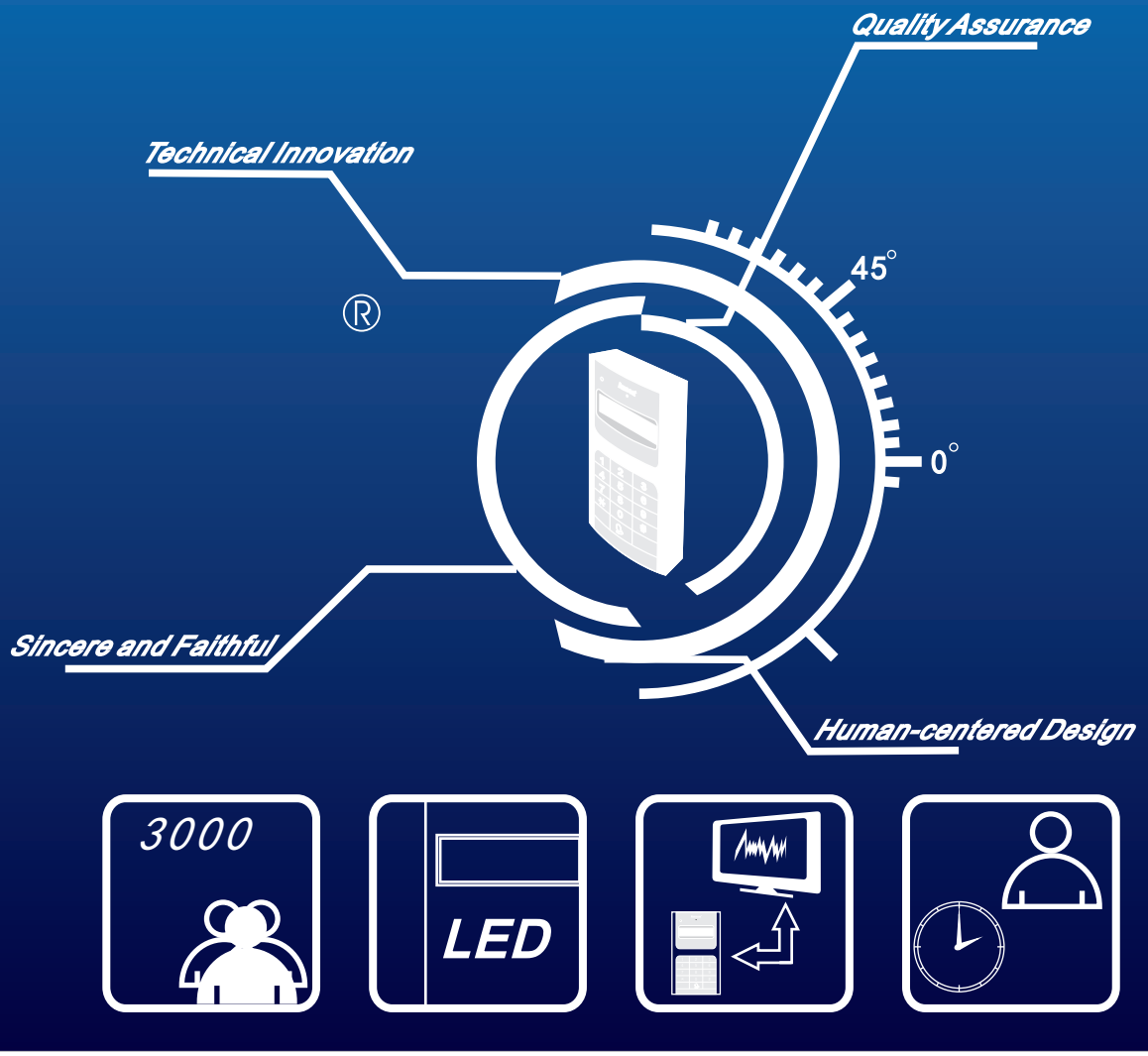
PROVISUAL

CCTV & Security Distributor

Integrated Access Controller Installation Manual



ProVisual, Inc.

Product Manual

Installation Manual

Product Connection

Function Debugging

Product Maintenance

Home & Business Security Solutions

Product Series

Provisual Integrated Access Control Series: **AC-930P**

Features

Anson Integrated Access Control is characterized by its elegant design and convenient application and installation, which is especially suitable for office buildings and shops. The device is equipped with built-in reader and can work both as controller and reader.

Operation Instruction

Anson Integrated Access control should be installed indoor. Please consider water-proof facility in case outdoor application is needed.

Notice

For detailed information, please refer to Product Manual and Wiring Diagram. Please make sure installation is correctly completed before turn on the power. When connect any external device, please turn off the power. This manual is only a general instruction and all products mentioned in this manual are Anson products.

Common Question

1. If there is no sound when card is presented to the reading area, the reading function maybe damaged.

2. If there is no sound when press the keys, the keypad maybe damaged.

3. When add card, if the device exits program mode automatically, the memory maybe damaged.

4. If valid card is read and OK light is on, while relay does not act, the lock control may malfunction.

5. If relay keeps on in open state, buzzer keeps buzzing, and SW-GND is short or lower than 3.5V, the keys maybe damaged.

6. MenCi-GND is short or lower than 3.5V, the door magnet input maybe damaged.

7. Voltage of DATA0, DATA1 and GND should be higher than 3.5V, otherwise exterior reader can not work properly.

8. When RS485 is applied, voltage between 485+ and 485- is around 5 voltages.

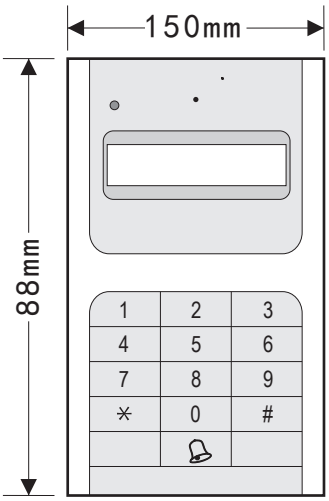
The life of products is related to application environment and application method. Please carefully follow the product manual and installation manual.

In case of any problem, please contact with our technical support instead of self-repairment. Please keep the original state of the products when sending back for repair. Please notify us if you have any special demand, and we will feedback within 48 hours.

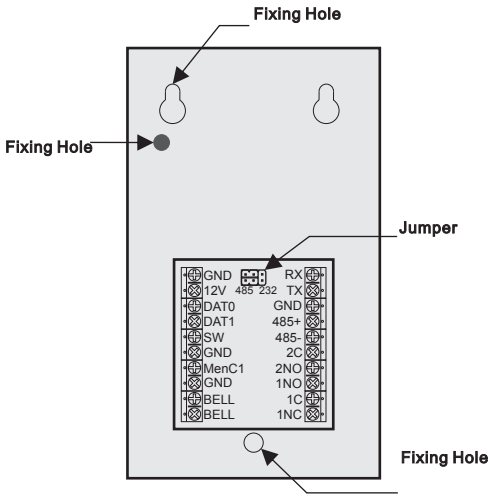
ProVisual, Inc.
Technical Support Department

support@securitycameradistributor.com
Toll Free: 1(800)593-6955

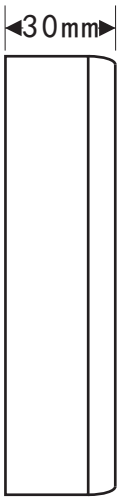
AC-930P



The Front



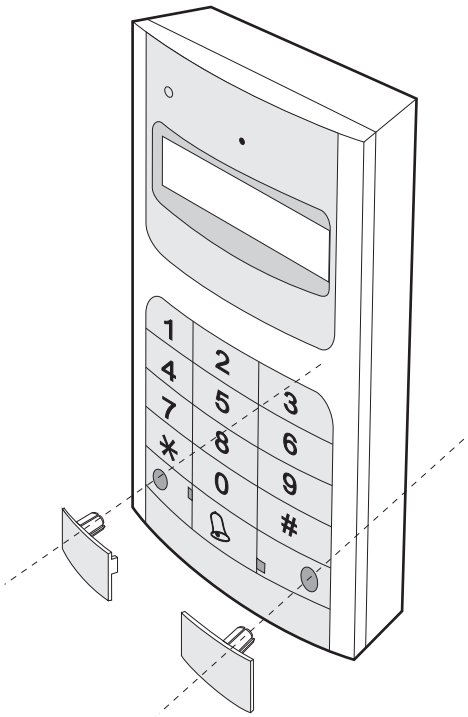
The Back



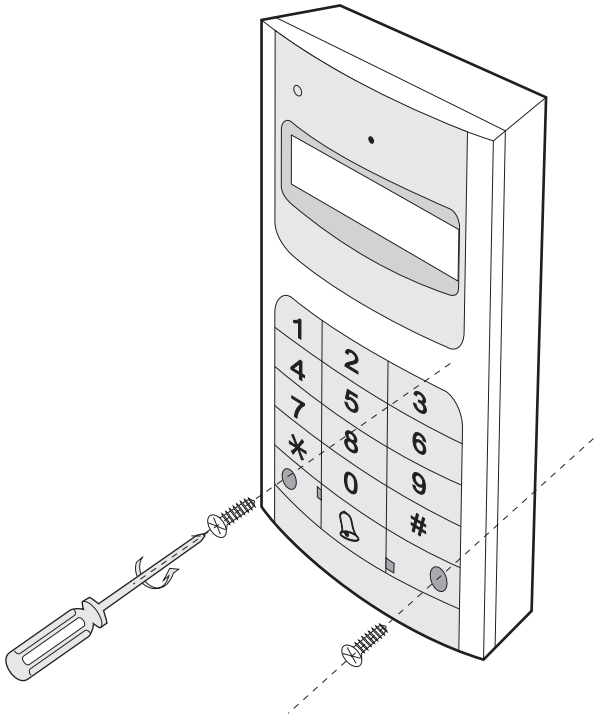
The Side

Product Parameters

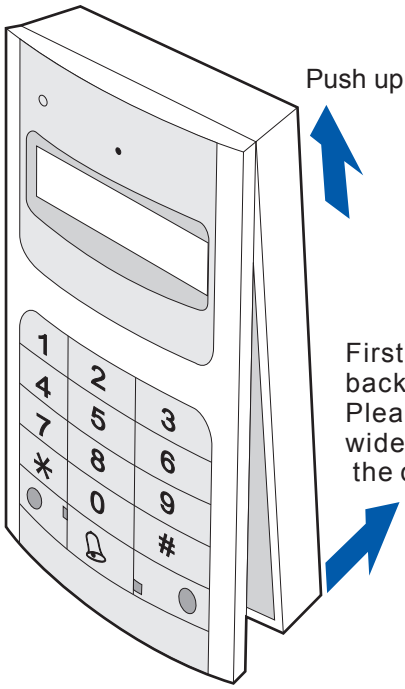
Working Voltage: DC9-15V
Static Current: ⩽120mA
Reading Distance: 5-10cm
Card Type: ID card
Working Temperature: -15℃~55℃
Card Capacity: 3000pcs
Input Interface: 1pcs exit button, 1pcs door magnet
Output Interface: 1pcs lock control port (normal open, normal close), 1pcs door magnet alarm output port (normal close)
Communication Mode: RS232/RS485
Reader Interface: Wiegand 26



1. Remove the two keys first.



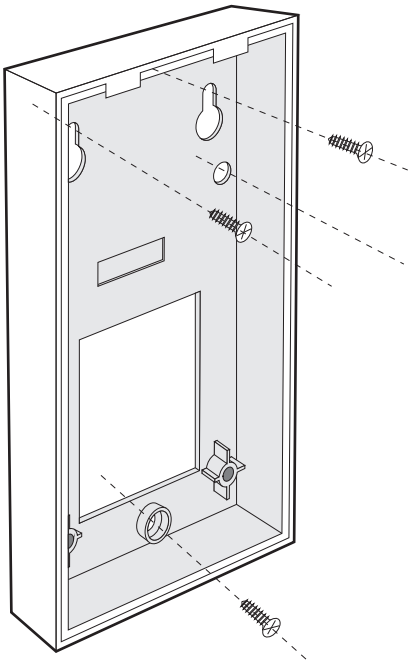
2. Unfasten the two screws.



Push up the back cover to open

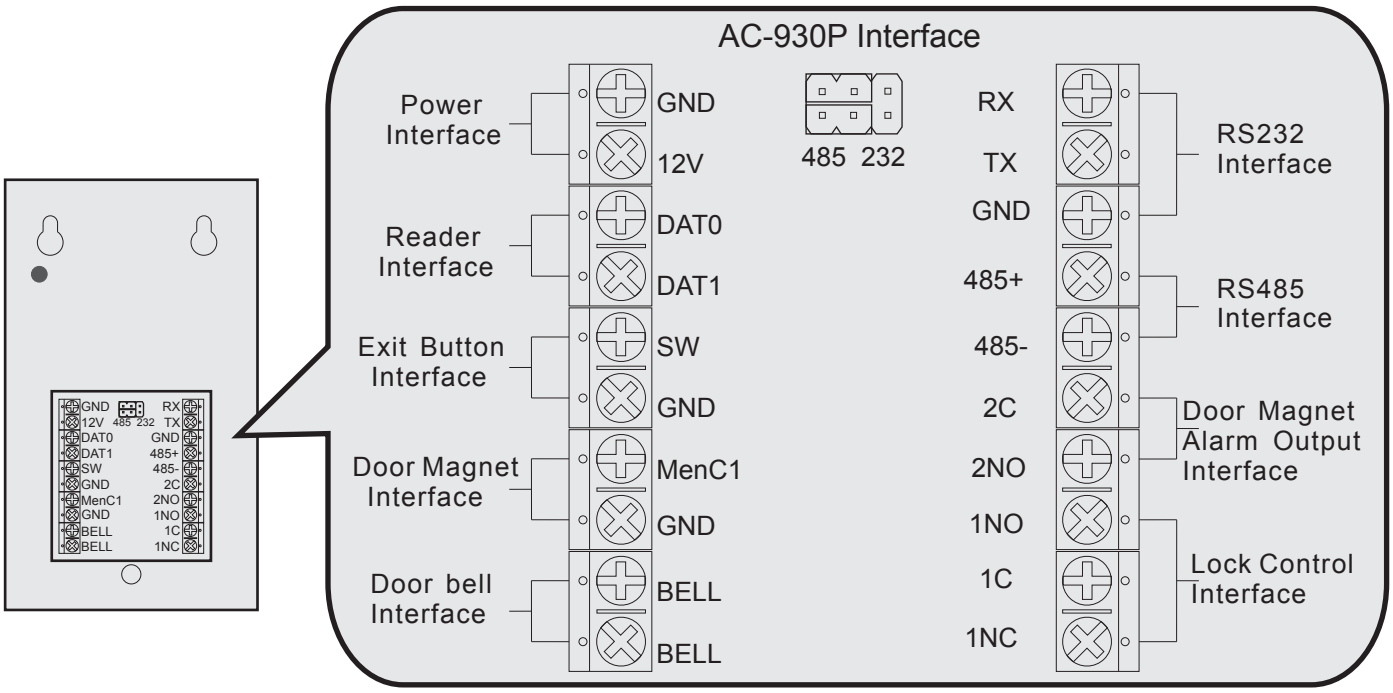
First open the lower part of backcover for around 1cm. Please note that open too wide may lead to damage to the device.

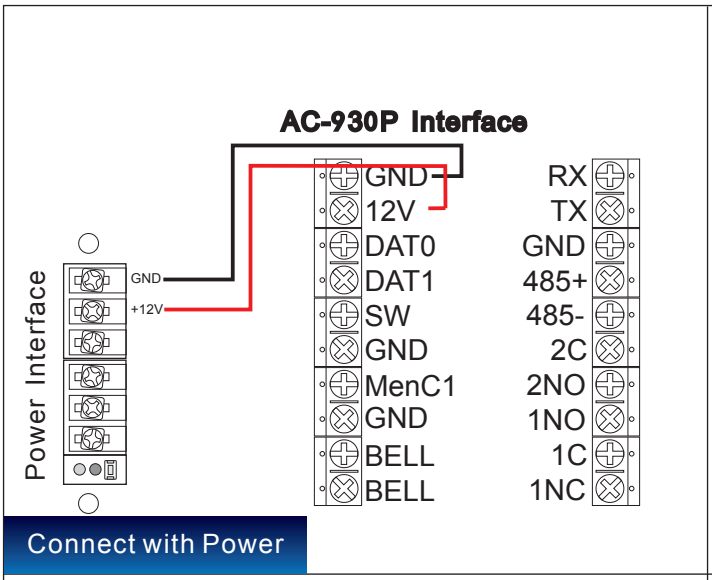
3. Open the back cover and connect the device according to the wiring diagram.

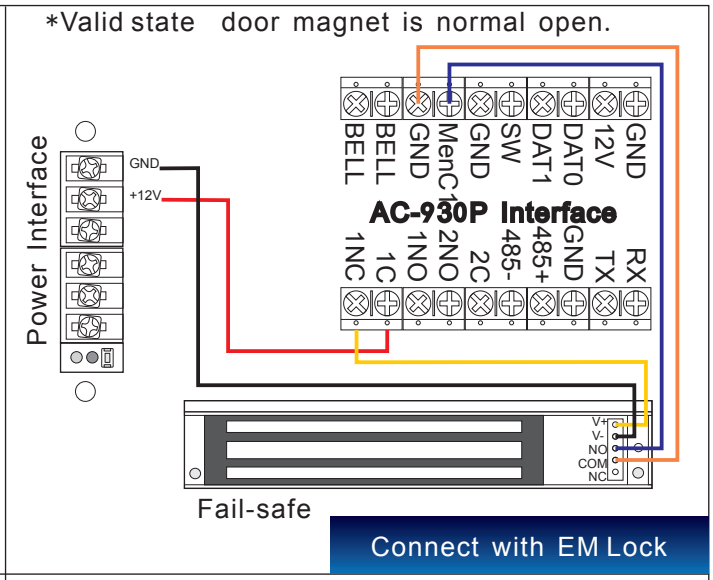


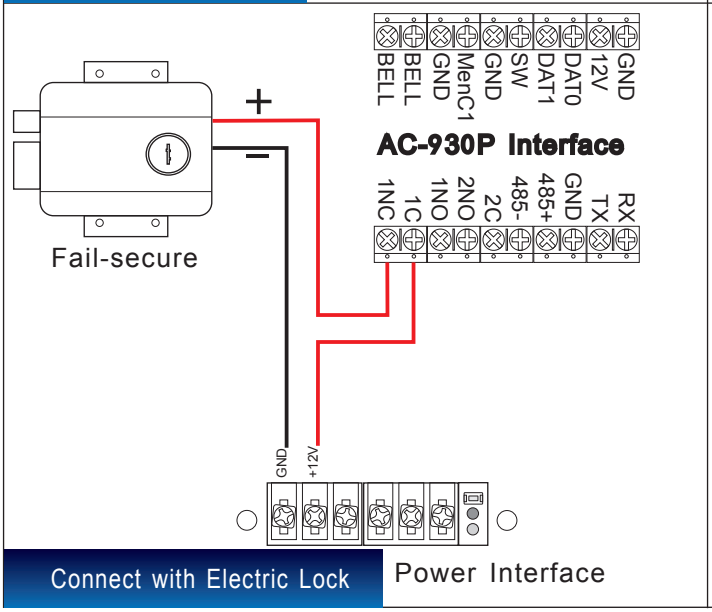
4. Fix the backcover on the wall Reassemble the device. (according to 1, 2 and 3 in reversed order.

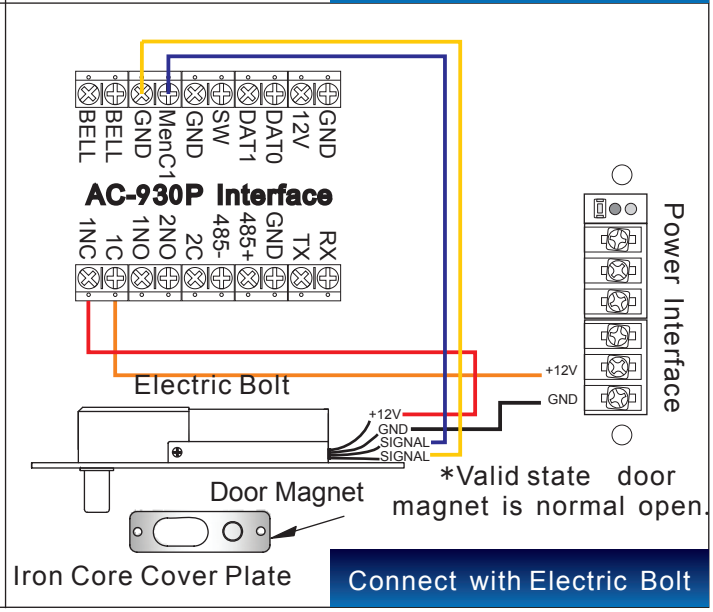
AC-930P


AC-930P Interface
Power Interface
GND
12V
Reader Interface
DAT0
DAT1
Exit Button Interface
SW
GND
Door Magnet Interface
MenC1
GND
Door bell Interface
BELL
BELL
485 232
RX
TX
GND
485+
485-
2C
2NO
1NO
1C
1NC
RS232 Interface
RS485 Interface
Door Magnet Alarm Output Interface
Lock Control Interface

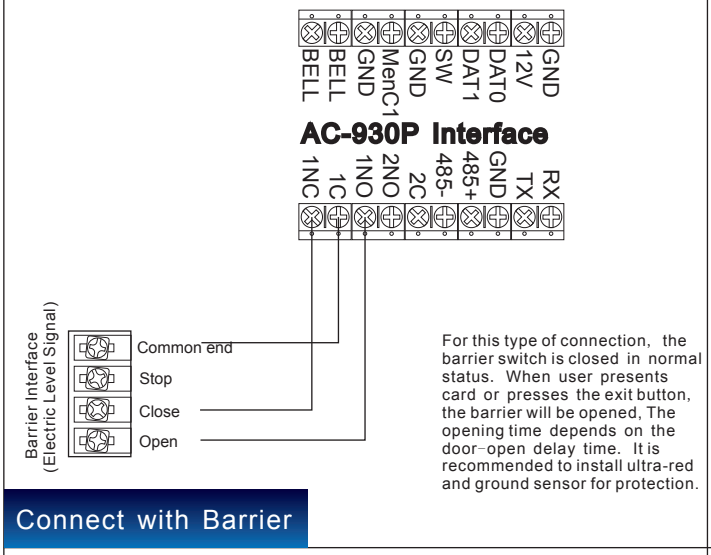

AC-930P Interface
Power Interface
GND
+12V
GND
12V
DAT0
DAT1
SW
GND
MenC1
GND
BELL
BELL
RX
TX
GND
485+
485-
2C
2NO
1NO
1C
1NC
Connect with Power


*Valid state door magnet is normal open.
Power Interface
GND
+12V
AC-930P Interface
BELL BELL GND MenC1 GND SW DAT1 DAT0 12V GND
1NC 1C 1NO 2NO 2C 485- 485+ GND TX RX
V+
V-
NO
COM
NC
Fail-safe
Connect with EM Lock


Fail-secure
+
−
AC-930P Interface
BELL BELL GND MenC1 GND SW DAT1 DAT0 12V GND
1NC 1C 1NO 2NO 2C 485- 485+ GND TX RX
GND
+12V
Power Interface
Connect with Electric Lock

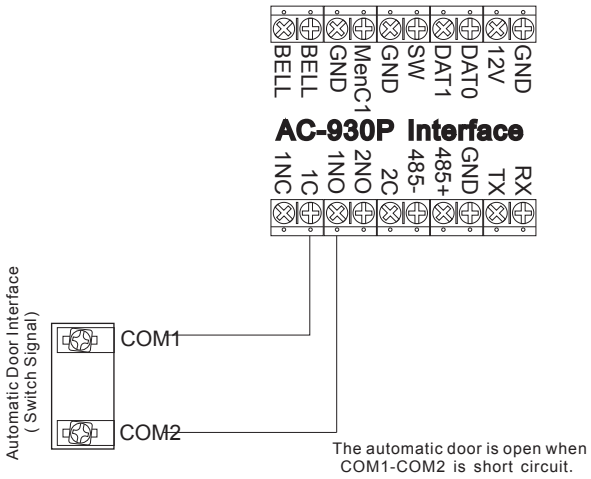

AC-930P Interface
BELL BELL GND MenC1 GND SW DAT1 DAT0 12V GND
1NC 1C 1NO 2NO 2C 485- 485+ GND TX RX
Electric Bolt
+12V
GND
SIGNAL
SIGNAL
Door Magnet
Iron Core Cover Plate
Power Interface
*Valid state door magnet is normal open.
Connect with Electric Bolt

AC-930P


BELL BELL GND MenC1 GND SW DAT1 DAT0 12V GND
AC-930P Interface
1NC 1C 1NO 2NO 2C 485- 485+ GND TX RX
Barrier Interface (Electric Level Signal)
Common end
Stop
Close
Open

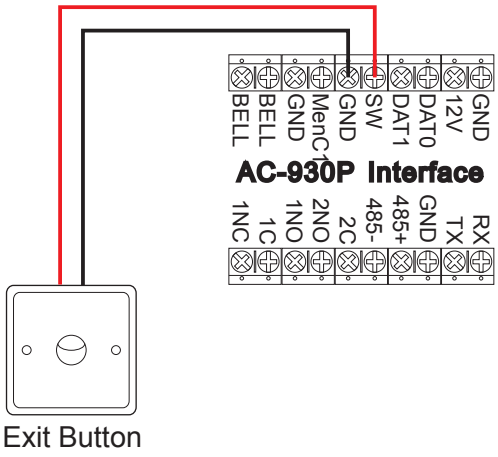
For this type of connection, the barrier switch is closed in normal status. When user presents card or presses the exit button, the barrier will be opened, The opening time depends on the door-open delay time. It is recommended to install ultra-red and ground sensor for protection.

Connect with Barrier

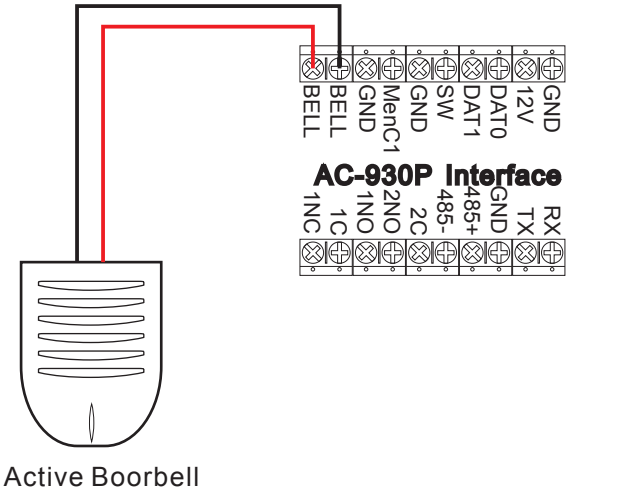

BELL BELL GND MenC1 GND SW DAT1 DAT0 12V GND
AC-930P Interface
1NC 1C 1NO 2NO 2C 485- 485+ GND TX RX
Automatic Door Interface (Switch Signal)
COM1
COM2

The automatic door is open when COM1-COM2 is short circuit.

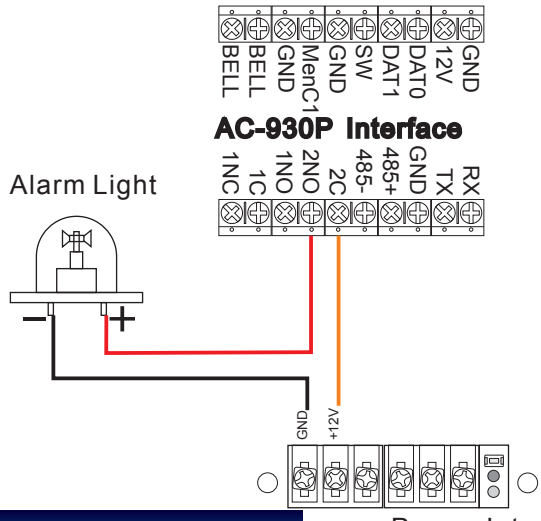
Connect with Automatic Door



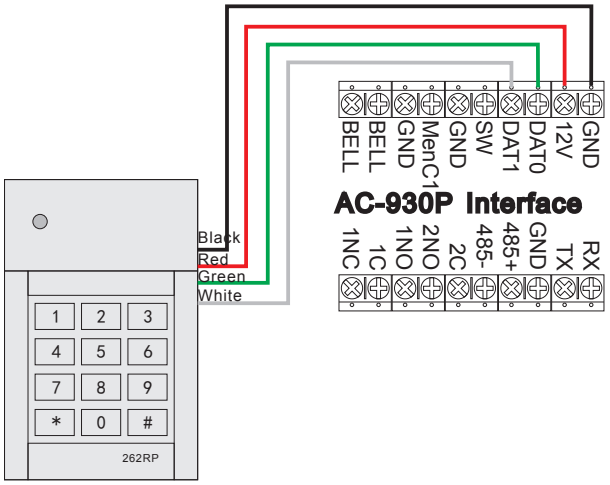
Connect with Exit Button



Connect with Door Bell

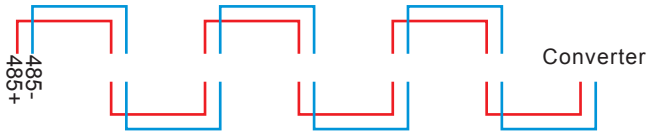

BELL BELL GND MenC1 GND SW DAT1 DAT0 12V GND
AC-930P Interface
1NC 1C 1NO 2NO 2C 485- 485+ GND TX RX
Alarm Light
GND
+12V
Power Interface

Connect with Alarm Device



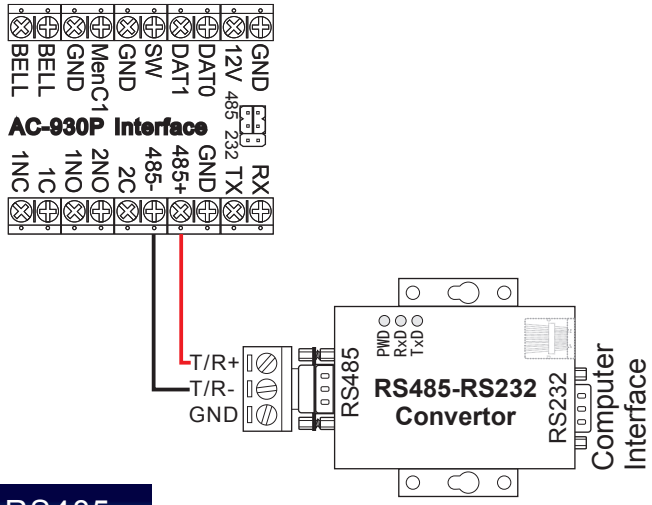
Connect with Reader

AC-930P

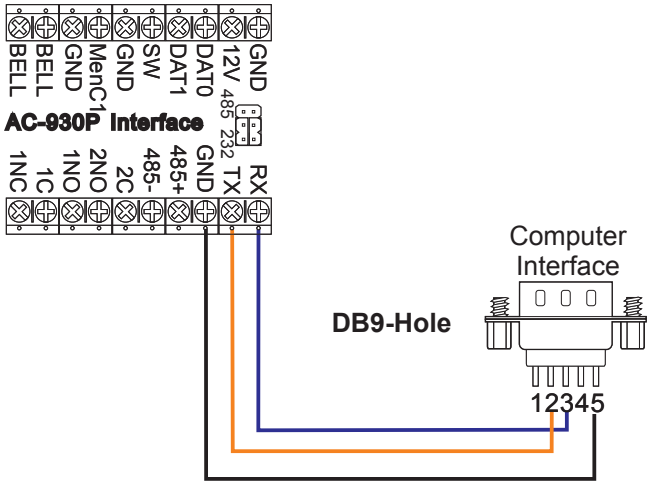


For 485 communication, please follow the diagram for connection and no other connection mode should be used.

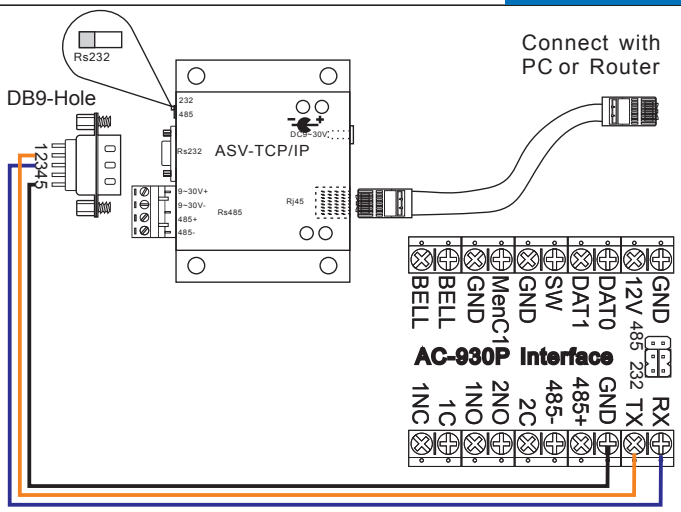
Connect with RS485



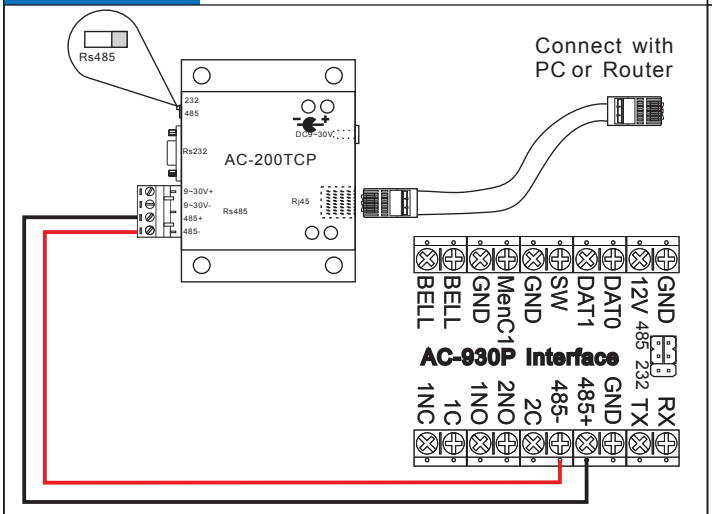
RS485



RS232

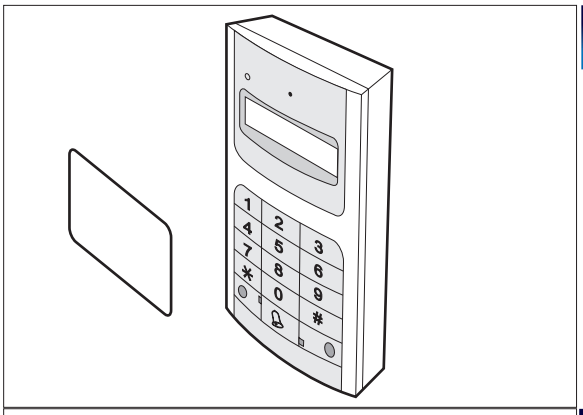


RS232\TCP/IP



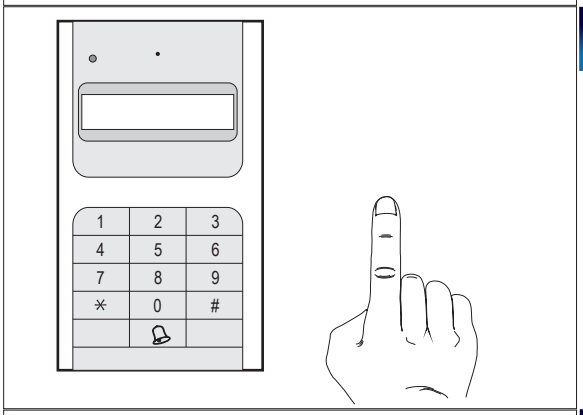
RS485\TCP/IP

AC-930P



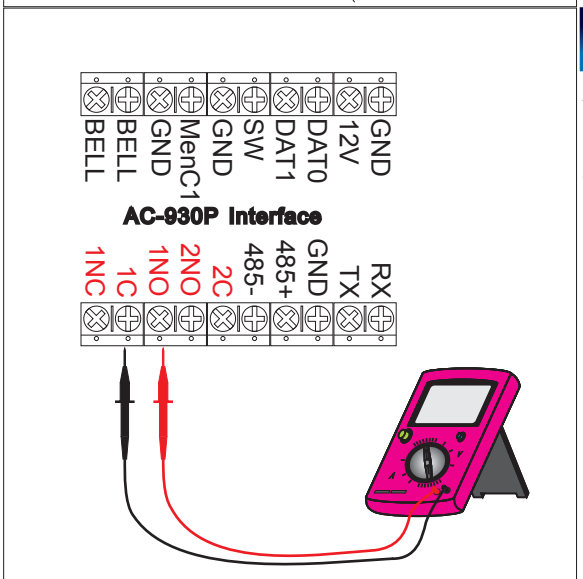
Test Reading Card

Invalid Card: If the reader sounds twice after the card is presented to the reading area for one second, the card is invalid.
Valid Card: If after the card is presented to the reading area for 0.5 seconds, the reader sounds once, green lights on and delay acts, then the card is valid.



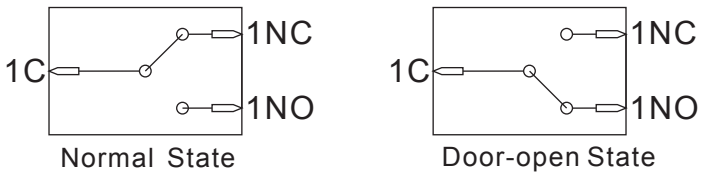
Test the Keypad

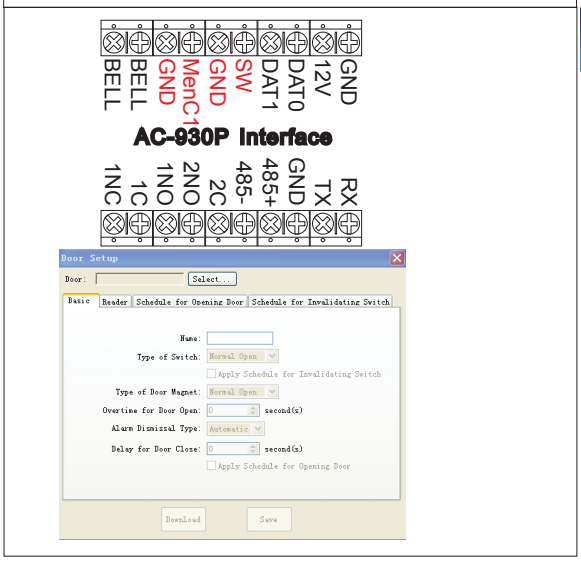
When the buzzer sounds once,
Dial "*", the orange light flashes; Input "000000", the orange light turns on and device enters program mode. This means the keypad is OK.



Test Output

Adjust the multimeter to , When the power is on, in normal state, 1C-1NC is short circuit, while 1C-1NO is open circuit. When present the valid card or press the exit button, 1C-1NC turns into open circuit, while 1C-1NO is short circuit.

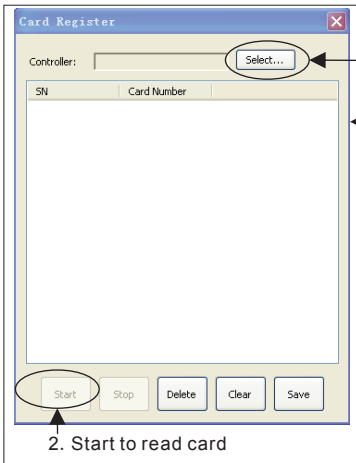




Test Input

If valid default input is normal open, no input available for the device when input signal is open-circuit; while input available when input signal is close-circuit. The status reversed when valid default input is normal close. The user can decide the type of default input setup in the software. AC-930P has two input interfaces: SW-GND is button input; MenCi-GND is door magnet input. Both of them can be changed in "channel setup".

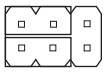
AC-930P



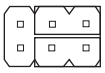
Connect with Exterior Identification Device

After the exterior device is connected with AC-930P, please select **Tools---Card Register** in the software program. Then, select the exterior device and start to read the card. If you can find the card number in the list, it means the exterior device works correctly.

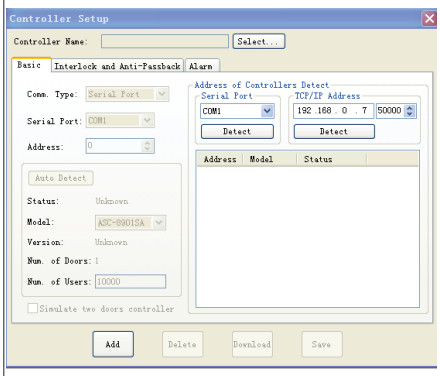
Setup the Jumper



Rs485

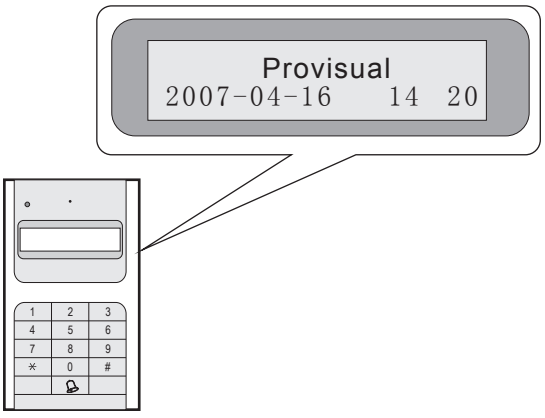


Rs232



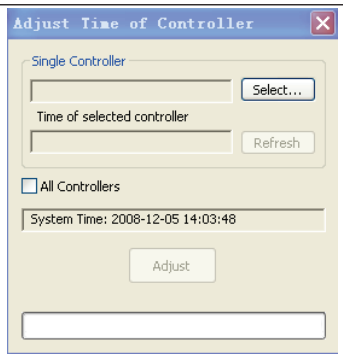
Test the Communication

AC-930P has two kinds of communication modes: RS232 and RS485. User can chose the communication mode by setting up the jumper. AC-930P can connect with PC serial port, and one serial port only connects with one AC-930P. RS485 signal should be converted to RS232 signal before it can communicate with PC. RS485 can connect with multiple devices. After ASI-8930 is connected with PC, user can detect AC-930P address by detecting serial port (please refer to the user manual to setup the address). If "connected" is displayed, the communication is ok. User can get version and model number of AC-930P by inputting the address and clicking Auto Detect.



Test the LCD

The LCD will display the **Provisual** and the time, after turn on the power for AC-930P.



* PC time should be in consistent with controller time; otherwise the reader may not work properly.

Test the time of AC-930P

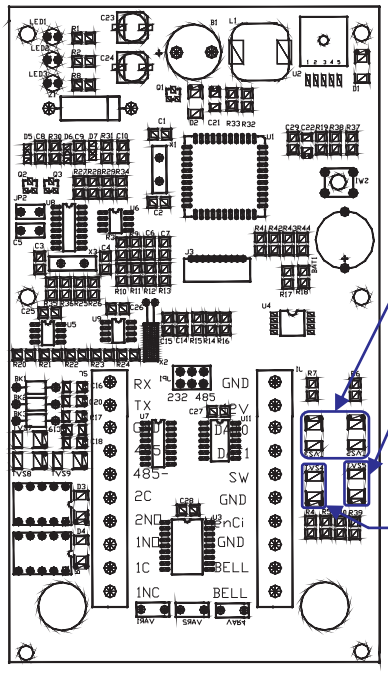
Time adjustment is shown in the picture on the left. The time of controller should be in consistent with PC. User can get updated time for controller by press "Refresh". If controller time is incorrect, card record may get lost, validity of card-read is in doubt, and moreover, valid card may turn into be invalid.

Common Question

1. If there is no sound when card is presented to the reading area, the reading function maybe damaged.
2. If there is no sound when press the keys, the keypad maybe damaged.
3. When add card, if the device exits program mode automatically, the memory maybe damaged.
4. If valid card is read and OK light is on, while relay does not act, the lock control may malfunction.
5. If relay keeps on in open state, buzzer keeps buzzing, and SW-GND is short or lower than 3.5V, the keys maybe damaged.
6. MenCi-GND is short or lower than 3.5V, the door magnet input maybe damaged.
7. Voltage of DATA0, DATA1 and GND should be higher than 3.5V, otherwise exterior reader can not work properly.
8. When RS485 is applied, voltage between 485+ and 485- is around 5 voltages.
9. The LCD have no information to be displayed, after turn on the power for AC-930P. The starting program maybe damaged.

The life of products is related to application environment and application method. Please carefully follow the product manual and installation manual.

In case of any problem, please contact with our technical support instead of self-repairment. Please keep the original state of the products when sending back for repair. Please notify us if you have any special demand, and we will feedback within 48 hours.



PCB

Urgent Maintenance:

1. When the exterior reader can not read the cards, please test the voltage of DATA0—GND and DATA1---GND. If the voltage is less than 3.5V, please weld TVS2, TVS3.
2. When door magnet input fails, please test the voltage between Menci and GND. If the voltage is less than 3.5V, please weld TVS5.
3. When exit button input fails, please test the voltage between SW and GND. If the voltage is less than 3.5V, please weld TVS4.